ATTY DOCKET NO.: 23998-021 FORM PTO – 1449 APPLICANTS: Frost, John W. SUPPLEMENTAL INFORMATION APPLICATION NO.: 10/572,976 DISCLOSURE STATEMENT FILING DATE: 11/20/2006 GROUP: 1652 U.S. PATENT DOCUMENTS **EXAM DOCUMENT** DATE NAME **CLASS** SUB FILING DATE IF INIT. NO. **CLASS** APPROPRIATE 5,164,382 11/17/1992 Sutherland et al. 5,168,056 12/01/1992 Frost 5,272,073 12/21/1993 Frost et al. 05/13/1997 5,629,181 Frost et al. 08/25/1998 Frost et al. 5,798,236 5,821,266 10/13/1998 Frost 5,906,925 05/25/1999 Liao Lomantas et al. 6,436,664 08/20/2002 6,613,552 09/02/2003 Frost FOREIGN PATENT DOCUMENTS **DOCUMEN** DATE **EXAM COUNTRY CLASS SUB FILING ABSTRACT ENGLISH** INIT. T NO. CODE **CLASS** DATE ONLY LANG (Y/N) 94/14955 07/07/1994 WO 96/34961 11/07/1996 WO 98/18937 WO 05/07/1998 00/44923 08/03/2000 WO OTHER ART, JOURNAL ARTICLES, ETC. EXAM OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT. Arias, A., et al., "Galactose Metabolism in Rhizobium meliloti L5-30," Journal of Bacteriology, Vol. 167, No. 3, pgs. 1092-1094, (1986).

DATE CONSIDERED

/Tekchand Saidha/ (04/09/2010)

EXAMINER

FORM PTO - 1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET NO.: 23998-021

APPLICANTS: Frost, John W.

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GROUP: 1652

EXAM OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT.				
	Attwood, T., Science Magazine, "Genomics: The Babel of Bioinformatics," Vol. 290, No. 5491, pgs. 471-173, (2000).			
	Brown, K.D., et al., "Transport And Utilization Of The Biosynthetic Intermediate Shikimic Acid In Escherichia Coli," Biochimica et Biophysica Acta, Vol. 428, pgs. 550-562, (1976).			
	Crameri, A., et al., "DNA shuffling of a family of genes from diverse species accelerates directed evolution," Nature, Vol. 391, pgs. 288-291, (1998).			
	Datsenko, K.A., et al., "One-step inactivation of chromosomal genes in Escherichia coli K-12 using PCR products," Proceedings of the National Academy of Sciences of the United States of America, Vol. 97, No. 12, pgs. 6640-6645, (2000).			
	Dell, K.A., et al., "Identification And Removal Of Impediments To Biocatalytic Synthesis Of Aromatics From D-Glucose: Rate-Limiting Enzymes In The Common Pathway Of Aromatic Amino Acid Biosynthesis," Journal of American Chemical Society, Vol. 115, pgs. 11581-11589, (1993).			
	Draths, K.M., et al., "Biocatalysis And Nineteenth Century Organic Chemistry: Conversion Of D-Glucose Into Quinoid Organics," Journal of American Chemical Society, Vol. 114, No. 24, pgs. 9725-9726, (1992).			
	Draths, K.M., et al., "Environmentally Compatible Synthesis Of Catechol From D-Glucose," Journal of American Chemical Society, Vol. 117, pgs. 2395-2400, (1995).			
	Draths, K.M., et al., "Shikimic acid and Quinic Acid: Replacing Isolation from Plant Sources with Recombinant Microbial Biocatalysis," Journal of American Chemical Society, Vol. 121, No. 7, pgs. 1603-1604, (1999).			
	Frost, J. et al., "Biocatalytic Syntheses of Aromatics From D-Glucose: Renewable Microbial Sources Of Aromatic Compounds," Annual Review of Microbiology, Vol. 49, pgs. 557-579, (1995).			
	Frost, et al., "Dehydroquinate Synthase from Escherichia coli: Purification, Cloning, and Construction of Overproducers of The Enzyme. Biochemistry," Vol. 23, pgs. 4470-4475, (1984).			
	Gu, W., et al., "Imidazole Acetol Phosphate Aminotransferase In Zymomonas Mobilis: Molecular Genetic, Biochemical, And Evolutionary Analyses," Journal of Bacteriology, Vol. 177, pgs. 1576-1584, (1995).			
	Haslam, Edwin, "Chemistry Of Intermediates In The Common Pathway," Shikimic Acid: Metabolism and Metabol John Wiley & Sons, New York, pgs. 40-42, (1993).			
EXAMINER	/Tekchand Saidha/ (04/09/2010) DATE CONSIDERED			

ATTY DOCKET NO.: 23998-021 FORM PTO – 1449 APPLICANTS: Frost, John W. SUPPLEMENTAL INFORMATION APPLICATION NO.: 10/572,976 DISCLOSURE STATEMENT FILING DATE: 11/20/2006 GROUP: 1652 OTHER ART, JOURNAL ARTICLES, ETC. **EXAM** OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT. Kikuchi, et al., "Mutational Analysis of the Feedback Sites of Phenylalanine-Sensitive 3-Deoxy-D-Arabino-Heptulosonate-7- Phosphate Synthase of Escherichia coli," Applied and Environmental Microbiology, Vol. 63, No.2, pgs. 761-762, (1997). Kim, C.U., et al., "Influenza Neuraminidase Inhibitors Possessing A Novel Hydrophobic Interaction In The Enzyme Active Site: Design, Synthesis, And Structural Analysis Of Carbocyclic Sialic Acid Analogues With Potent Anti-Influenza Activity," Journal of American Chemical Society, Vol. 119, No. 4, pgs. 681-690, (1997). Knop, David R., et al., "Hydroaromatic Equilibration During Biosynthesis of Shikimic Acid," Journal of American Chemical Society, Vol. 123, No. 42, pgs. 10173-10182, (2001). Konstantinov, K.B., et al., "Glucose Feeding Strategy Accounting For The Decreasing Oxidative Capacity Of Recombinant Escherichia coli In Fed-Batch Cultivation For Phenylalamine Production," Journal of Fermentation and Bioengineering, Vol. 70, No. 4, pgs. 253-260, (1990). Konstantinov, K.B., et al., "Physiologically Motivated Strategies For Control Of The Fed-Batch Cultivation Of Recombinant Escherichia coli For Phenylalanine Production,"," Journal of Fermentation and Bioengineering, Vol.. 71, No. 5, pgs. 350-355, (1991). Kurn, N., et al., "Galactose Catabolism in Caulobacter crescentus," Journal of Bacteriology, Vol. 135, No. 2, pgs. 517-520, (1978). Li, Kai, et al., "Utilizing Succinic Acid as a Glucose Adjunct in Fed-Batch Fermentation: Is Butane a Feedstock Option in Microbe-Catalyzed Synthesis?," Journal of American Chemical Society, Vol. 121, No. 40, pgs. 9461-9462, (1999).Mitsuhashi, S., et al., "Aromatic Biosynthesis - XIII. Conversion Of Quinic Acid To 5-Dehydroquinic Acid By Quinic Dehydrogenase," Biochimica Biophysica Acta, Vol. 15, pgs. 268-280, (1954).

DATE CONSIDERED

Nierman, W.C., et al., "Complete genome sequence of Caulobacter crescentus," Proceedings of the National Academy

Patnaik, R., et al., "Engineering Of Escherichia Coli Central Metabolism For Aromatic Metabolite Production With Near Theoretical Yield," Applied And Environmental Microbiology, Vol. 60, No. 11, pgs. 3903-3908, (1994).

Pittard, J., et al., "Gene Controlling the Uptake of Shikimic Acid By Escherichia Coli," Journal of Bacteriology., Vol.

Rohloff, J.C. et al., "Practical Total Synthesis Of The Anti-Influenza Drug GS-4104," The Journal of Organic

of Sciences of the United States of America, Vol. 98, pgs. 4136-4141, (2001).

92, No. 4, pgs. 1070-1075, (1966).

/Tekchand Saidha/ (04/09/2010)

EXAMINER

Chemistry, Vol. 63, No. 12, pgs. 4545-4550, (1998).

FORM PTO – 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY DOCKET NO.: APPLICANTS: APPLICATION NO.: FILING DATE: GROUP:	23998-021 Frost, John W. 10/572,976 11/20/2006	
	OTHER AR	T, JOURNAL ARTICLES, ETC.		
EXAM INIT.	OTHER DOCUMENTS: (Including	CUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	Stouthammer, A.H., "Glucose and Galactose Metabolism in Gluconobacter Liquefaciens," Biochimica et Biophysica Acta, Vol. 48, No. 3, pgs. 484-500, (1981).			
	Szumilo, Tadeusz, "Pathway for D-Galactonate Catabolism in Nonpathogenic Mycobacteria," Journal of Bacteriology Vol. 148, No. 1, pgs. 368-370, (1981).			
	Tan, D.S., et al., "Stereoselective Synthesis Of Over Two Million Compounds Having Structural Features Both Reminiscent Of Natural Products And Compatible With Miniaturized Cell-Based Assays," Journal of American Chemical Society, Vol. 120, No. 33, pgs. 8565-8566, (1998). Weaver et al., "Cloning of an aroF Allele Encoding a Tyrosine- Insensitive 3-deoxy-d-Arabino-Heptulosonate 7-Phosphate Synthase," Journal of Bacteriology, Vol. 172, No. 11, pgs. 6581-6584, (1990). Whipp, M.J., et al., "Cloning and Analysis of the shiA Gene, which Encodes the Shikimate Transport System of Escherichia Coli K-12," Gene, Vol. 209, pgs. 185-192, (1998).			
	Whipp, M.J., et al., "A Reassessment of the Relationship Between aroK- 1-47 and aroL-encoded Shikimate Kinase Enzymes of Escherichia Coli," Journal of Bacteriology, Vol. 177, No. 6, pgs. 1627-1629, (1995).			

Wong, T.Y., et al., "The DeLey-Doudoroff Pathway of Galactose Metabolism in *Azobacter vinelandii*," Applied Environmental Microbiology, Vol. 60, No. 6, pgs. 2065-2068, (1994).

DATE CONSIDERED

/Tekchand Saidha/ (04/09/2010)

EXAMINER